



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

(CFMTC)

Machine Id

[CFMTC] CESSNA 182P 089915-R (S/N 089915-P)

Component

Center Piston Aircraft Engine

Fluid

PHILLIPS 66 AVIATION X/C OIL SAE20W50 (12 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0952997	WC0820330	WC0685300
Sample Date		Client Info		21 Jun 2024	14 Jun 2023	30 May 2022
TSN	hrs	Client Info		0	0	0
TSO	hrs	Client Info		101	0	85
Oil Age	hrs	Client Info		10	14	8
Filter Age	hrs	Client Info		10	14	8
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185(m)	>90	135	144	134
Chromium	ppm	ASTM D5185(m)	>20	12	15	14
Nickel	ppm	ASTM D5185(m)	>15	3	4	3
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>5	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	12	16	13
Lead	ppm	ASTM D5185(m)	>20000	1246	1380	933
Copper	ppm	ASTM D5185(m)	>25	5	7	5
Tin	ppm	ASTM D5185(m)	>30	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

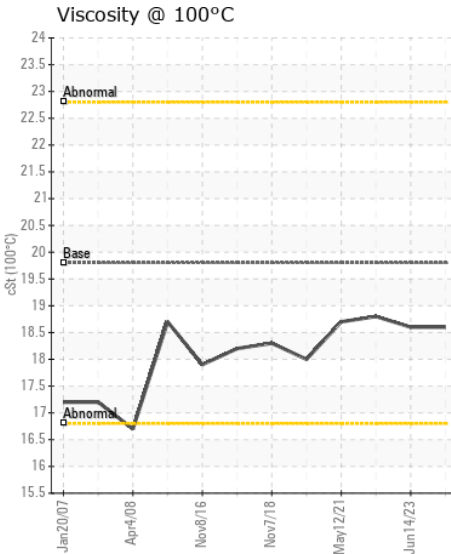
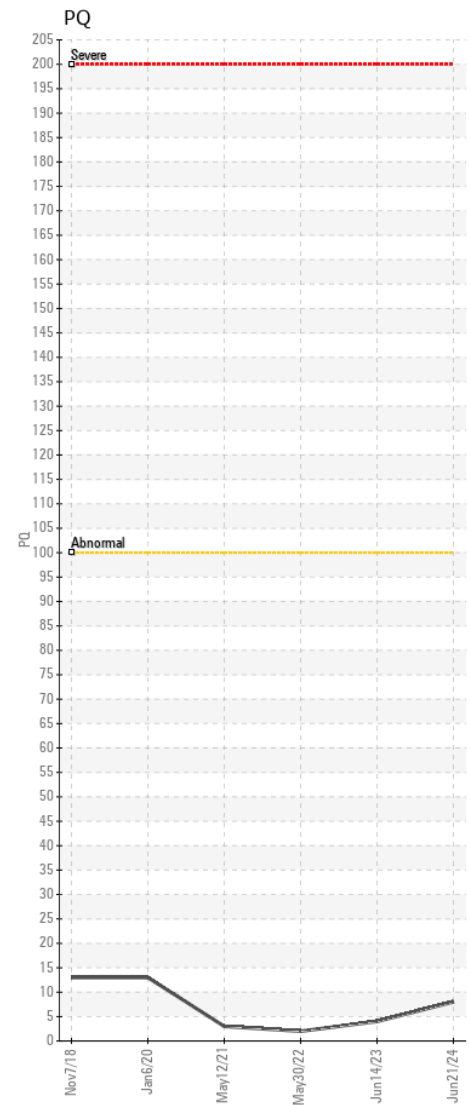
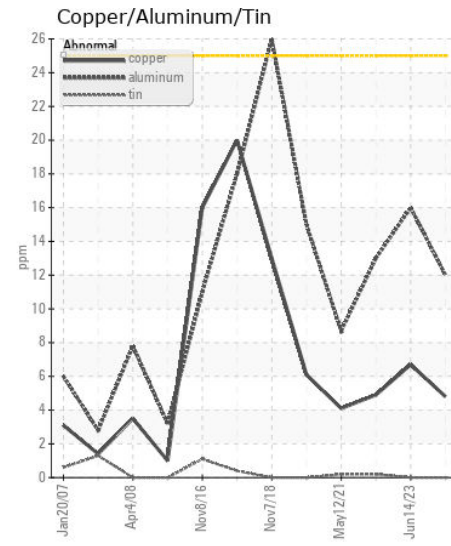
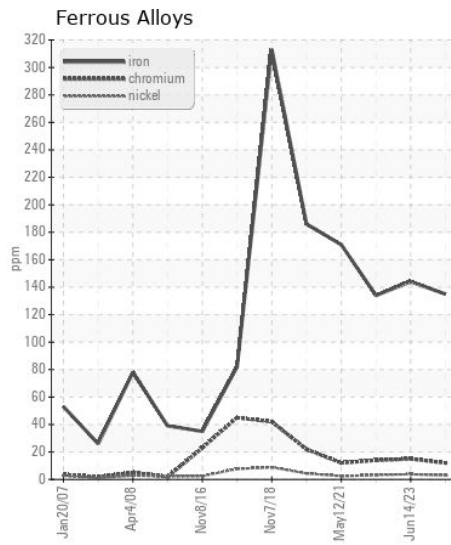
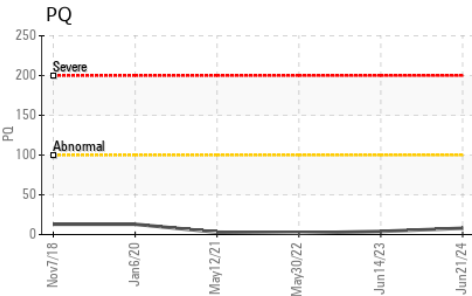
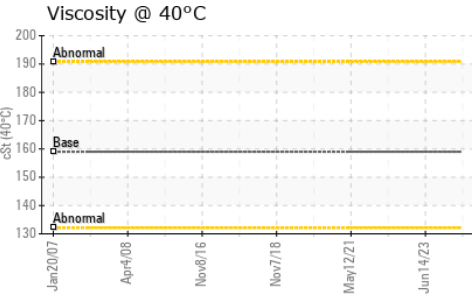
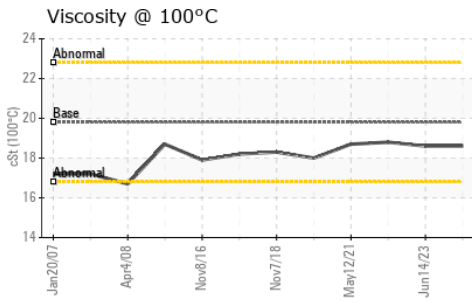
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	7	9	9
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	VLITE	LIGHT
Debris	scalar	Visual*	NONE	NONE	VLITE	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<1	<1	<1
Boron	ppm	ASTM D5185(m)		<1	<1	<1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		7	8	7
Manganese	ppm	ASTM D5185(m)		1	2	2
Magnesium	ppm	ASTM D5185(m)		<1	<1	<1
Calcium	ppm	ASTM D5185(m)		1	2	5
Phosphorus	ppm	ASTM D5185(m)		<1	3	1
Zinc	ppm	ASTM D5185(m)		3	4	4
Sulfur	ppm	ASTM D5185(m)		993	1042	981
Visc @ 40°C	cSt	ASTM D7279(m)	159	159	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	19.8	18.6	18.6	18.8
Viscosity Index (VI)	Scale	ASTM D2270*	144	131	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0952997
Lab Number : 02644158
Unique Number : 5801697
Test Package : AVI 1 (Additional Tests: KV40, PQ, VI)
Received : 26 Jun 2024
Tested : 26 Jun 2024
Diagnosed : 27 Jun 2024 - Kevin Marson

CORPORATE AIRCRAFT RESTORATIONS
 481 AVIATOR LANE
 OSHAWA, ON
 CA L1J 0B8
 Contact: Maurice Nesbitt
 hangar@bellnet.ca
 T: (905)434-5173
 F: (905)983-9599

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.